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मानक

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IS 8583 (1991): Surgical instruments - Gall duct dilators, Bake's pattern [MHD 1: Surgical Instruments]



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“Knowledge is such a treasure which cannot be stolen”



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भारतीय मानक  
शल्य क्रिया उपकरण -- पित्त नालिका विस्फारक,  
बेक नमूने वाला — विशिष्ट  
( पहला पुनरोक्षण )

*Indian Standard*

SURGICAL INSTRUMENTS — GALL DUCT  
DILATORS, BAKE'S PATTERN —  
SPECIFICATION  
( *First Revision* )

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BUREAU OF INDIAN STANDARDS  
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NEW DELHI 110002

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Price Group 1

## FOREWORD

This Indian Standard ( First Revision ) was adopted by the Bureau of Indian Standards, after the draft finalized by the Surgical Instruments Sectional Committee had been approved by the Medical Equipment and Hospital Planning Division Council.

This standard was first issued in 1977. It has been revised to include another type of gall duct dilator with cylindrical working end. Besides, it incorporates the approximate mass of various sizes of dilators and recognizes only stainless steel as material for dilators.

In the preparation of this standard, assistance has been derived from DIN 13456 : 1982 'Medical instruments, gall duct dilators, type Bakes' issued by Deutsches Institut für Normung, Germany.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

# Indian Standard

## SURGICAL INSTRUMENTS — GALL DUCT DILATORS, BAKE'S PATTERN — SPECIFICATION

( *First Revision* )

### 1 SCOPE

**1.1** This standard specifies the requirements for Bake's pattern gall duct dilators.

### 2 REFERENCES

**2.1** The Indian standards listed below are necessary adjuncts to this standard:

<i>IS No.</i>	<i>Title</i>
6603 : 1972	Specification for stainless steel bars and flats
7531 : 1990	Methods for testing of corrosion resistance of stainless steel surgical instruments ( <i>first revision</i> )

### 3 MATERIAL

**3.1** The instrument shall be made of stainless steel conforming to designation 02Cr18Ni11 or 04Cr18Ni10 or 07Cr18Ni9 of IS 6603 : 1972.

### 4 TYPES, SHAPE, DIMENSIONS AND MASS

**4.1** The gall duct dilators shall be of two types, namely dilator with bulb type working end and dilator with cylindrical working end as shown in Fig. 1 and Fig. 2 respectively.

**4.2** Sizes, dimensions and mass for dilator with bulb type working end shall be as shown in Fig. 1.

**4.3** Sizes, dimensions and mass for dilator with cylindrical working end shall be as shown in Fig. 2.

### 5 WORKMANSHIP

**5.1** The working end of the dilator shall be rounded and finished smooth.

### 6 SURFACE CONDITION

#### 6.1 General

All surfaces shall be free from pores, crevices, seams, burrs and grinding marks. The instrument shall be supplied free from residual scale, acid, grease, grinding and polishing material.

#### 6.2 Surface Finish

The instrument shall have a dull surface finish e.g. satin finish or matt finish.

#### 6.3 Passivation and Final Treatment

The instrument shall be treated by a suitable passivation process, for example, electropolishing or by treatment with 10 percent (v/v) nitric acid solution for not less than 30 minutes at a temperature not less than 10°C and not exceeding 60°C. The instrument shall then be rinsed in water and dried in hot air.

### 7 CORROSION RESISTANCE TEST

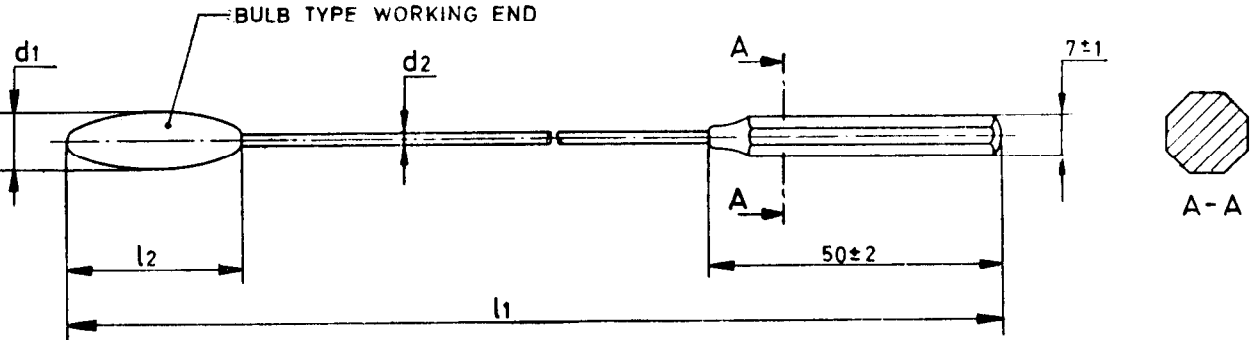
**7.1** The instrument shall be tested for corrosion resistance in accordance with IS 7531 : 1990. It shall pass the test.

### 8 MARKING

**8.1** The instrument shall be marked legibly and indelibly with the identification of the source of manufacture, the letter 'SS' or the words 'Stainless Steel' and the country of manufacture.

### 9 PACKING

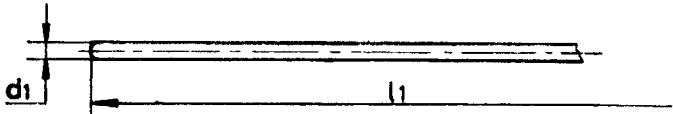
**9.1** The instrument shall be individually put either in a polyethylene bag or wrapped in wax paper. Each instrument shall then be packed in a carton as agreed to between the purchaser and the manufacturer or in accordance with the current trade practice.



$d_1$ 0 -0.2	$l_1$ Min	$d_2$ $\pm 0.4$	$l_2$ Min	Mass g ≈
2	315	1.6	8	15
3			10	
4			14	20
5			18	
6	320	2.2	20	
7			23	30
8			25	
9			28	
10			30	40
11			32	
12			34	
13			36	50

All dimensions in millimetres

FIG. 1 DILATORS, GALL DUCT, BAKE'S PATTERN



$d_1$ 0 -0.2	$l_1$ Min	Mass g ≈
1.2	315	15
2		

All dimensions in millimetres.

FIG. 2 CYLINDRICAL TYPE WORKING END

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